| | Application No. | Applicant(s) |
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| Notice of Allowability | 00/022 000 | HUANG ET AL. |
| | 09/922,099 Examiner | Art Unit |
| | Nancasia Marku. | 2625 |
| | Negussie Worku | 2625 |
| The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in the or other appropriate communi IGHTS. This application is sub | nis application. If not included cation will be mailed in due course. THIS |
| 1. This communication is responsive to <u>12/20/06</u> . | | ·. |
| 2. The allowed claim(s) is/are <u>1-3,5-7,9-11,16-19,21 and 22.</u> | | |
| 3. Acknowledgment is made of a claim for foreign priority unexpense a) All b) Some* c) None of the | | (f) . |
| Certified copies of the priority documents have | | M |
| 2. Certified copies of the priority documents have | , , | |
| 3. Copies of the certified copies of the priority documents have been received in this national stage application from the | | |
| International Bureau (PCT Rule 17.2(a)). | | |
| * Certified copies not received: | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | reply complying with the requirements |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached | | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | |
| (b) including changes required by the attached Examiner' Paper No./Mail Date | s Amendment / Comment or in | the Office action of |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | | |
| 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | |
| | | |
| | | |
| Attachment(s) | | |
| 1. ☑ Notice of References Cited (PTO-892) | 5. Notice of Infor | mal Patent Application |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. ☐ Interview Sum | nmary (PTO-413), ail Date |
| 3. Information Disclosure Statements (PTO/SB/08), | 7. Examiner's Ar | mendment/Comment |
| Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit | 8. 🛛 Examiner's St | atement of Reasons for Allowance |
| of Biological Material | 9. 🗌 Other | • |
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DETAILED ACTION

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: In response to the Office action dated 11/17/06, and further to the amendments filed on 12/20/06, applicant's election of group I directed to claims 1-3, 5-11, 16-19, 21 and 22, is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP 818.03(a)).

According to applicant's response dated on 4/19/06, claims 16, 17, 18, 19 and 21 has been written in independent form, in order to include the objected claims having allowable subject matter, as discussed in page 13-14 of applicant's amendment dated on 09/19/06. Claims 16, 17, 18, 19 and 21 are currently pending in independent form, including dependent claims 1-3, 5-7, 9-11 and 22, in which, claims 4, 8, 12-15, 20 and 23-25 are cancelled.

Therefore, the above-indicated claims 1-3, 5-7, 9-11, 16-19, 21 and 22 are allowed for the reasons as follows:

With respect to claim 1-3 and 16 [16 is independent] the prior art searched and of record neither anticipates nor suggests an image processor, capable of calculating an optical path deviation based at least in part on the calibrated image to adjust the

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scanned image, and wherein the set of calibration photosensitive devices comprises a plurality of calibration photosensitive devices arranged at two sides of the set of scan photosensitive devices in an L x K array, wherein L and K are integers larger than 1.

As to claim 17, an image processor, capable of calculating an optical path deviation based at least in pat on the calibrated image to adjust the scanned image; and wherein, the set of scan photosensitive devices comprise a plurality of scan photosensitive-devices, and wherein the calibration photosensitive devices have a dimension smaller than that the scan photosensitive device is not taught or suggested by the prior art searched and of record.

Regarding claims 5-7 and 18 [18 independent] the prior art do not teach or suggest an image processor, capable of calculating an optical path deviation based at least in part on the calibrated image to adjust the scanned image; and wherein the one or more calibration boards have a strip shape and a width increasing along a scanning direction.

As to claims 9-11 and 19 [19 independent] the prior art searched or do not teach or suggest an image processor, capable of calculating an optical path deviation based at least in part on the calibrated image to adjust the scanned image; and wherein the one or more calibration boards have a strip shape and a width decreasing along a scanning direction.

Regarding claims 21-22, the prior art searched or do not teach or suggest calculating the optical path deviation in a y-axis according to the displacement of the calibrated image detected by the set of calibration photosensitive devices; and calculating the optical path deviation in a z-axis according to the displacement of the calibrated image detected by the set of calibration photosensitive devices.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Negussie Worku whose telephone number is 571-272-7472. The examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Aung Moe can be reached on 571-272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Norsie War 2/14/07

AUNG S. MOE SUPERVISORY PATENT EXAMINER